

Common Sense Initiative, Automobile Manufacturing Sector

***U.S. Automobile Assembly Plants and Their Communities:
Environmental Economic, and Demographic Profile***

**Part III: Automobile/Light Duty Truck Assembly
Plant-Community Profiles**

**55. Ford Motor Co.
Norfolk, VA**

December 1997

Contents and Guidelines for Use

Users of this profile should carefully review the description of methods, data limitations, and guidelines for use and interpretation of the data presented in Part I of the report.

Contents:

Plant Locations (National and Michigan maps)
Plant Location, Database Identification Numbers, 1994 Production and Employment
1991 and 1993 RCRA Biennial Report Summary
1991-1994 TRI Releases and Transfers Summary
1994 TRI Releases and Transfers by Chemical
1991-1994 Volatile Organic Compound and Nitrogen Oxide Emissions
1994 Summary of TRI Chemical Releases and Transfers from Sources within 3 Miles of Assembly Plant
Air Quality Attainment Status for Criteria Pollutants (as of 1994)
Community Demographic and Economic Characteristics
Facility Location (map)
Area Wide 1994 TRI Emission Profile (map)
1994 TRI Releases and Transfers from Sources within 3 Miles of Assembly Plant, by Chemical
Demographic Characteristics (maps)

General Guidelines for Use

Efforts have been made to ensure that the data presented here are accurate. The Project Team could not independently verify data accuracy in all cases, however, and some errors may remain. The following is a partial list of factors that should be considered in using these profiles:

1. Current releases presented in this report represent only some of the contamination sources in a given area. Data on historical releases (prior to 1991) were not included, and releases from non-assembly plant emission sources were identified only through the Toxics Release Inventory (TRI). TRI data do not cover all sources of releases. Considering only TRI data for a given community may mis-state the relative contribution of plants and their neighboring TRI facilities to an area's total releases.
2. Care must be taken to distinguish true changes over time in environmental releases from apparent changes, due, for example, to changes in the scope of reporting requirements.
3. TRI data are often based on engineering estimates and are reported on an annual basis. Data on releases over shorter time frames are not available.
4. TRI, the Biennial Report and other databases do not include all substances and environmental releases of concern.

Notes on Comparisons Across Facilities

1. The following factors can affect an assembly plant's environmental profile, among other things: the number of vehicles produced, plant age, process equipment age, and vehicle size and configuration.
2. Some plants are highly-integrated, performing some parts and all assembly steps in-house. Others obtain parts from other manufacturing facilities, or share assembly operations with another plant.
3. States differ in how they define hazardous waste and how they treat recycled wastes and small quantity generators. Therefore, data on quantities of BRS wastes generated may not be comparable for plants located in different states.
4. Area-wide averages for economic and demographic characteristics may be better or worse measures of the plant's immediate community, depending on the specific location of a plant within the reporting area.

Plant-Community Profile:
Ford Motor Co.
Norfolk City VA

12/2/97

LOCATION	Address	2424 Springfield Ave., Norfolk VA 23523	DESCRIPTION	Plant opened 1925; Produced Ford F series pickups in 1994.
	Lat/Long:	latitude (degrees N) 36 50' 0"		
		longitude (degrees W) 76 14' 55"		
	County:	Norfolk City MSA:Norfolk-Va Beach-Newport News VA		
OPERATIONS	Other counties within 3 miles of plant:	Virginia Beach, Portsmouth, Chesapeake	ID NUMBERS	
			RCRA ID	VAD003177391
			AIRS ID	AFS5171000009
			NPDES ID	VA0004910
			TRI	23523FRDMT2424S
	Production	Employment		
	Calendar Year: 1991	117,315		
	1992	119,783		
	1993	153,910		
	1994	181,840	1,802	

PLANT ENVIRONMENTAL PROFILE

RCRA BIENNIAL REPORT

<i>Waste Code(s)</i>	<i>Wastewater?</i>	<i>Physical Form</i>	<i>Source</i>	<i>Mgd. On/Off-Site</i>	<i>Management Method</i>	<i>Quantity Generated (tons)</i>	<i>Quantity Shipped (tons)</i>	<i>Quantity Mgd. On-Site (tons)</i>
<i>1991</i>								
D001 (ignit) D039, D018	N	B204 org. liquids	A19 other clean/degr.	Off	M021 solvents recov.	3.2	3.2	0.0
F002 (halog. solvents)	N	B202 org. liquids	A21 painting	Off	M023 solvents recov.	43.3	43.3	0.0
F003, F005, D001, D006, D007	N	B203 org. liquids	A21 painting	Off	M021 solvents recov.	0.3	0.3	0.0
F005, F002, F003 (solvents)	N	B204 org. liquids	A21 painting	Off	M051 energy recov.	83.1	83.1	0.0
TOTAL - 1991						129.9	129.9	0.0
<i>1993</i>								
D001(ignitable) D039 (tetrochlethylene)	N	B204 org. liquid	A19 other clean/degr.	Off	M021 solvents recov.	4.3	4.3	0.0
F002, F003, F005, D001, D018	N	B204 org. liquid	A21 painting	Off	M051 energy recov.	234.5	234.5	0.0
F003 (non-halog solvents)	N	B203 org. liquid	A04 flush rinsing	Off	M022 solvents recov.	476.8	476.8	0.0
F003, F005 (nonhalog solvents)	N	B203 org. liquid	A21 painting	Off	M021 solvents recov.	0.1	0.1	0.0
TOTAL - 1993						715.7	715.7	0.0

TOXICS RELEASE INVENTORY

<i>Total lbs of TRI chemicals:</i>	<i>Air-Fugitive Emissions</i>	<i>Air-Stack Emissions</i>	<i>Total Releases</i>	<i>Discharge to POTW</i>	<i>Off-Site Energy Recovery</i>	<i>Off-Site Recycling</i>	<i>Off-Site Treatment</i>	<i>Off-Site Disposal</i>	<i>Total Transfers</i>
1991	17,202	528,386	545,588	24,140	83,720	85,000	0	11,000	203,860
1992	10,097	420,532	430,629	35,110	114,005	0	23	8,970	158,108
1993	100,233	557,983	658,216	23,320	79,100	503,630	1	14,430	620,481
1994	23,384	652,264	675,648	19,550	80,965	1,495,169	0	17,700	1,613,384
Lbs. per vehicle produced:									
1991	0.15	4.50	4.65	0.21	0.71	0.72	0.00	0.09	1.74
1992	0.08	3.51	3.60	0.29	0.95	0.00	0.00	0.07	1.32
1993	0.65	3.63	4.28	0.15	0.51	3.27	0.00	0.09	4.03
1994	0.13	3.59	3.72	0.11	0.45	8.22	0.00	0.10	8.87

Plant-Community Profile:
Ford Motor Co.
Norfolk City VA

12/2/97

PLANT ENVIRONMENTAL PROFILE (continued)

1994 TRI Emissions/Releases by Chemical (lbs.)

Chemical Name	Air-Fugitive Emissions	Air-Stack Emissions	Total Releases	Discharge to POTW	Off-Site Energy Recovery	Off-Site Recycling	Off-Site Treatment	Off-Site Disposal	Total Transfers
METHANOL	1,400	37,000	38,400	0	6,100	8,224	0	0	14,324
N-BUTYL ALCOHOL	350	71,000	71,350	0	10,000	37,130	0	0	47,130
BENZENE	23	52	75	0	0	0	0	0	0
METHYL ETHYL KETONE	4,300	16,000	20,300	0	2,200	23,078	0	0	25,278
1,2,4-TRIMETHYLBENZENE	4,500	28,000	32,500	0	1,700	240,730	0	0	242,430
CUMENE	1,000	1,400	2,400	0	85	12,037	0	0	12,122
ETHYLBENZENE	770	47,000	47,770	0	2,700	130,440	0	0	133,140
ETHYLENE GLYCOL	0	0	0	0	4,800	0	0	0	4,800
METHYL ISOBUTYL KETONE	320	58,000	58,320	0	2,700	361,200	0	0	363,900
TOLUENE	4,300	3,300	7,600	0	680	23,080	0	0	23,760
CYCLOHEXANE	1	2	3	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	2,700	260,000	262,700	0	38,000	642,200	0	0	680,200
METHYL TERT-BUTYL ETHER	220	510	730	0	0	0	0	0	0
GLYCOL ETHERS	3,500	130,000	133,500	19,000	12,000	17,050	0	0	48,050
MANGANESE COMPOUNDS	0	0	0	260	0	0	0	8,300	8,560
ZINC COMPOUNDS	0	0	0	290	0	0	0	9,400	9,690
TOTAL	23,384	652,264	675,648	19,550	80,965	1,495,169	0	17,700	1,613,384

VOC/NOx Emissions:
(lbs/year)

	VOCs	NO2
1990	3,028,000	18,000
1991	2,438,000	14,000
1992	2,582,000	18,000
1993	2,922,000	54,000
1994	4,042,000	52,000

**Plant-Community Profile:
Ford Motor Co.
Norfolk City VA**

12/2/97

COMMUNITY ENVIRONMENTAL PROFILE

TRI Chemical Releases & Transfers from Sources Within 3 Miles of Auto/LDT Plant (lbs.)

<i>Facility (w. map #)</i>	<i>Air-Fugitive Emissions</i>	<i>Air-Stack Emissions</i>	<i>Total Releases</i>	<i>Discharge to POTW</i>	<i>Off-Site Transfers</i>	<i>Total Transfers</i>
1 BAUER COMPRESSORS INC.	0	0	0	0	0	0
2 NORSHIPCO & DRYDOCK CORP.	35,000	0	35,000	0	2,750	2,750
4 COLONNAS SHIPYARD INC.	43,000	0	43,000	0	0	0
5 SMITHFIELD PACKING CO. INC.	0	0	0	0	0	0
6 METRO MACHINE CORP.	0	0	0	0	0	0
7 SOUTHLAND IND. INC.	0	0	0	0	0	0
8 NORSHIPCO CORP.	172,750	250	173,000	1,505	24,250	25,755
9 UNITED STATES GYPSUM CO.	0	0	0	0	0	0
10 CHESAPEAKE FERTILIZER CO.	0	2,595	3,600	0	0	0
11 CARGILL INC. DSP DIV.	0	0	0	0	0	0
12 CHESAPEAKE HARDWOOD PRODUCT	6,000	26,000	32,000	5	250	255
Total	256,750	28,845	286,600	1,510	27,250	28,760

**Air Quality Attainment Status
(as of 1994)***

ozone - nonattainment (marginal)
carbon monoxide - attainment or unclassifiable
particulates - unclassifiable
lead - unclassifiable
NO2 - cannot be classified or better than national standards
SO2 - attainment

* no changes in designations occurred between 1994 and 1996

**Plant-Community Profile:
Ford Motor Co.
Norfolk VA**

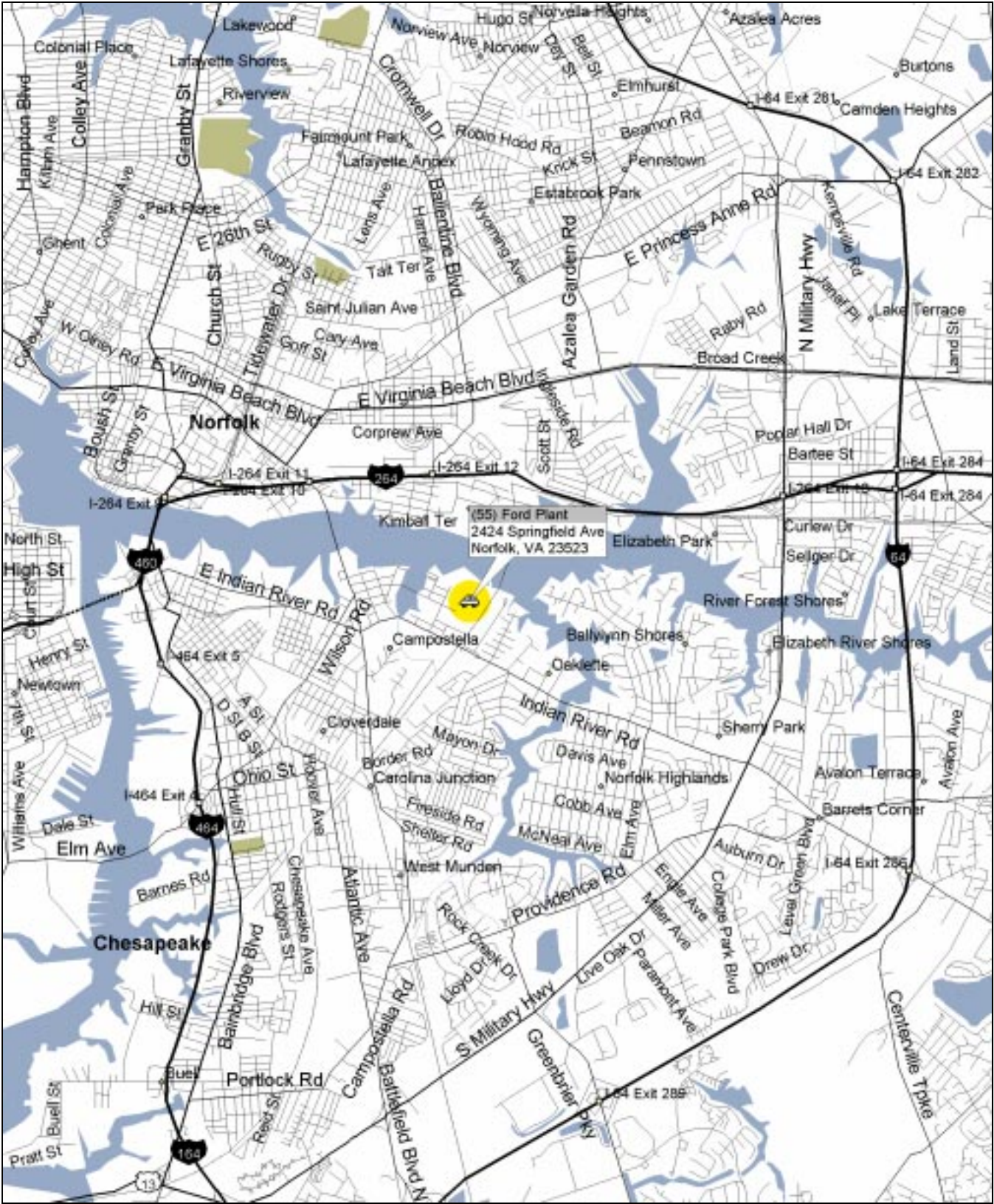
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COMMUNITY DEMOGRAPHIC AND ECONOMIC CHARACTERISTICS

	<i>Census Block</i>	<i>0-1 Mile</i>	<i>0-3 Miles</i>	<i>1-3 Miles</i>	<i>3-5 Miles</i>	<i>County</i>	<i>State</i>	<i>U.S.</i>
Total Population (1994)	NA	NA	NA	NA	NA	241,426	6,550,826	260,340,990
Total Population (1990)	49	7,669	743,302	735,633	139,677	261,229	6,187,358	248,709,873
% Change 1990-1994	NA	NA	NA	NA	NA	-8	6	5
Total Area (sq. mi.) (1990)	<1	3.1	28.2	25.1	50.2	53.8	39,597.8	3,536,278.1
Population/sq. mi. (land area) (1990)	178	4,321	34,414	37,108	3,560	4,859	156	70
Median Household Income (1994)						NA	37,647	32,264
Median Household Income (1989)						23,563	33,328	30,056
% Change 1979-1989 (constant \$)						12	14	7
% Change 1989-1994 (constant \$)						NA	13	7
Per Capita Personal Income (1993)						17,198	21,653	20,800
Per Capita Personal Income (1989)						14,360	18,768	17,690
% Change 1989-1993 (current \$)						20	15	18
Minority Percentage (1990)	55	73	12	11	43	43	22	20
Pct. of Households Below Poverty Level (1989)	70	42	9	8	18	14	11	20
Pct. Not Completing High School (1990)	53	41	34	33	19	23	24	25
Total Employment (1994) (civilian nonfarm)						96,849	3,422,000	131,056,000
Unemployment Rate (1994)						6	5	6
Manufacturing Employment (1993)						12,463	404,065	18,183,381
Mfgr. as % Total Employment (1993)						12	17	19
Manufacturing Employment (1992)						NA	408,000	18,253,000
Production Workers (1992)						NA	283,000	11,654,000
% Change in Mfgr. Employment 1987-1992						NA	-5	-4
Assembly Plant as % Total Mfgr. Workers						14		

Data sources used were not always complete or current.
Attempts have been made to verify data, but errors may still exist.

Norfolk, VA, Ford Plant



Streets98

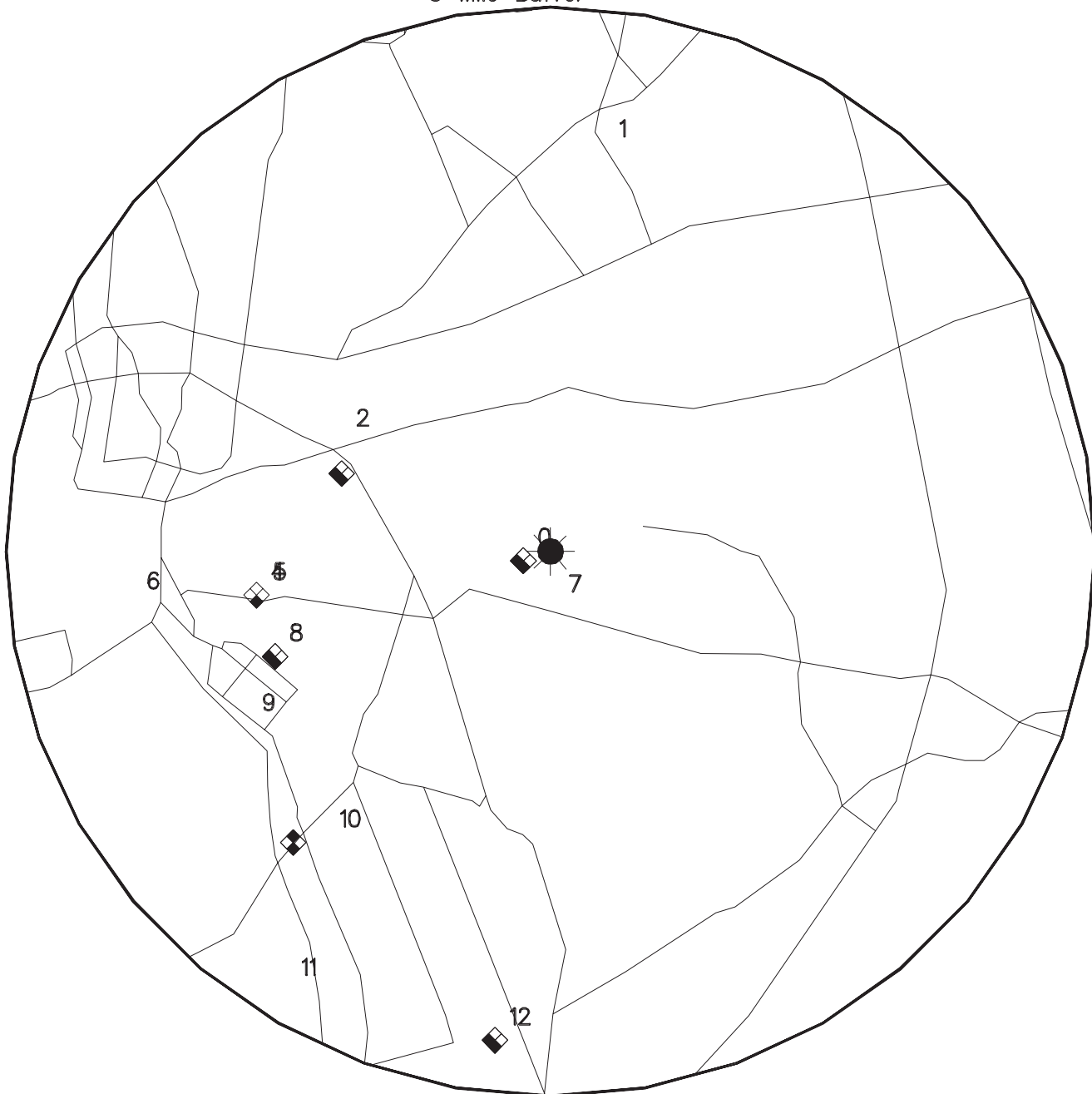
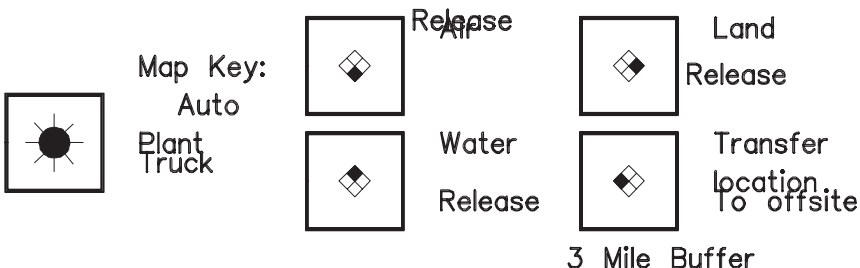
FORD MOTOR CO
2424 SPRINGFIELD AVE
NORFOLK VA
Tri Number: 23523FRDMT2424S

Map #	SIC	Name	Address	City	State
0	3711	FORD MOTOR CO. NORFOLK ASSEMBLY PLANT	2424 SPRINGFIELD AVE.	NORFOLK	VA
1	3563	BAUER COMPRESSORS INC.	1328 AZALEA GARDEN RD.	NORFOLK	VA
2	3731	NORSHIPCO & DRYDOCK CORP.	ROSE & CLAIRBORNE ST.	NORFOLK	VA
4	3731	COLONNAS SHIPYARD INC.	400 E. INDIAN RIVER RD.	NORFOLK	VA
5	2010	SMITHFIELD PACKING CO. INC.	435 EAST INDIAN RIVER RD.	NORFOLK	VA
6	3731	METRO MACHINE CORP.	200 LIGON ST.	NORFOLK	VA
7	3293	SOUTHLAND IND. INC.	2601 INDIAN RIVER RD.	CHESAPEAKE	VA
8	3731	NORSHIPCO CORP.	750 W. BERKLEY AVE.	NORFOLK	VA
9	3275	UNITED STATES GYPSUM CO.	1001 BUCHANAN ST.	NORFOLK	VA
10	2875	CHESAPEAKE FERTILIZER CO.	FOOT OF OHIO ST.	CHESAPEAKE	VA
11	2075	CARGILL INC. DSP DIV.	501 BARNES RD.	CHESAPEAKE	VA
12	2435	CHESAPEAKE HARDWOOD PRODUCTS INC.	201 DEXTER ST. W.	CHESAPEAKE	VA

AREA WIDE 1994 TRI EMISSION PROFILE

FORD MOTOR CO
NORFOLK COUNTY, Virginia

Latitude: 36 50 0
Longitude: 76 14 55



Number without a Symbol denotes no reported emissions over 0.5 pounds per year

1994 TRI EMISSIONS (LB/YEAR) AT FACILITIES WITHIN THREE MILES OF
FORD MOTOR CO TRI NO: 23523FRDMT2424S

Chemical Name	Air Fugitive (Non-Point Source) Emissions	Air Stack (Point Source) Emissions	Discharge to Surface Water	On-Site Land Disposal	TOTAL RELEASES	Discharge to POTW	Transfer	TOTAL TRANSFERS
<hr/>								
FORD MOTOR CO. NORFOLK ASSEMBLY PLANT			SIC DESCRIPTION:	MOTOR VEHICLES & CAR BODIES	MAP LOCATION NO:		0	
2424 SPRINGFIELD AVE. NORFOLK	VA 23523		SIC CODE: 3711					
METHANOL	1,400	37,000	0	0	38,400	0	14,324	14,324
N-BUTYL ALCOHOL	350	71,000	0	0	71,350	0	47,130	47,130
BENZENE	23	52	0	0	75	0	0	0
METHYL ETHYL KETONE	4,300	16,000	0	0	20,300	0	25,278	25,278
1,2,4-TRIMETHYLBENZENE	4,500	28,000	0	0	32,500	0	242,430	242,430
CUMENE	1,000	1,400	0	0	2,400	0	12,122	12,122
ETHYLBENZENE	770	47,000	0	0	47,770	0	133,140	133,140
ETHYLENE GLYCOL	0	0	0	0	0	0	4,800	4,800
METHYL ISOBUTYL KETONE	320	58,000	0	0	58,320	0	363,900	363,900
TOLUENE	4,300	3,300	0	0	7,600	0	23,760	23,760
CYCLOHEXANE	1	2	0	0	3	0	0	0
XYLENE (MIXED ISOMERS)	2,700	260,000	0	0	262,700	0	680,200	680,200
METHYL TERT-BUTYL ETHER	220	510	0	0	730	0	0	0
GLYCOL ETHERS	3,500	130,000	0	0	133,500	19,000	29,050	48,050
MANGANESE COMPOUNDS	0	0	0	0	0	260	8,300	8,560
ZINC COMPOUNDS	0	0	0	0	0	290	9,400	9,690
SUBTOTALS	23,384	652,264	0	0	675,648	19,550	1,593,834	1,613,384
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BAUER COMPRESSORS INC.			SIC DESCRIPTION:	AIR AND GAS COMPRESSORS	MAP LOCATION NO:		1	
1328 AZALEA GARDEN RD. NORFOLK	VA 23502		SIC CODE: 3563					
SUBTOTALS	0	0	0	0	0	0	0	0
<hr/>								
NORSHIPCO & DRYDOCK CORP.			SIC DESCRIPTION:	SHIP BUILDING AND REPAIRING	MAP LOCATION NO:		2	
ROSE & CLAIRBORNE ST. NORFOLK	VA 23504		SIC CODE: 3731					
N-BUTYL ALCOHOL	15,000	0	0	0	15,000	0	750	750
XYLENE (MIXED ISOMERS)	20,000	0	0	0	20,000	0	2,000	2,000
SUBTOTALS	35,000	0	0	0	35,000	0	2,750	2,750

FORD MOTOR CO

TRI NO: 23523FRDMT2424S

**Air Fugitive
(Non-Point
Source)
Emissions**

Air Stack
(Point
Source)
Emissions

Discharge
to
Surface
Water

On-Site Land Disposal

TOTAL
RELEASES

Discharge
to POTW

Transfer

TOTAL
TRANSFERS

COLONNAS SHIPYARD INC.

SIC DESCRIPTION: SHIP BUILDING AND REPAIRING
SIC CODE: 3731

MAP LOCATION NO: 4

400 E. INDIAN RIVER RD.
NORFOLK VA 23523

N-BUTYL ALCOHOL	12,500	0	0	0	12,500	0	0	0
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METHYL ISOBUTYL KETONE	8,500	0	0	0	8,500	0	0	0
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XYLENE (MIXED ISOMERS)	22,000	0	0	0	22,000	0	0	0
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SUBTOTALS	43,000	0	0	0	43,000	0	0	0
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SMITHFIELD PACKING CO. INC.

SIC DESCRIPTION:
SIC CODE: 2010

MAP LOCATION NO: 5

435 EAST INDIAN RIVER RD.
NORFOLK VA 23523

SUBTOTALS	0	0	0	0	0	0	0
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METRO MACHINE CORP.

SIC DESCRIPTION: SHIP BUILDING AND REPAIRING
SIC CODE: 3731

MAP LOCATION NO: 6

200 LIGON ST.
NORFOLK VA 23523

SUBTOTALS	0	0	0	0	0	0	0
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SOUTHLAND IND. INC.

SIC DESCRIPTION:
SIC CODE: 3293

MAP LOCATION NO: 7

2601 INDIAN RIVER RD.
CHESAPEAKE VA 23325

SUBTOTALS	0	0	0	0	0	0	0
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1994 TRI EMISSIONS (LB/YEAR) AT FACILITIES WITHIN THREE MILES OF
FORD MOTOR CO TRI NO: 23523FRDMT2424S

Chemical Name	Air Fugitive (Non-Point Source) Emissions	Air Stack (Point Source) Emissions	Discharge to Surface Water	On-Site Land Disposal	TOTAL RELEASES	Discharge to POTW	Transfer	TOTAL TRANSFERS
NORSHIPCO CORP. 750 W. BERKLEY AVE. NORFOLK VA 23501 2100			SIC DESCRIPTION: SHIP BUILDING AND REPAIRING SIC CODE: 3731				MAP LOCATION NO:	8
N-BUTYL ALCOHOL	25,000	0	0	0	25,000	0	2,000	2,000
METHYL ISOBUTYL KETONE	27,000	0	0	0	27,000	0	1,500	1,500
XYLENE (MIXED ISOMERS)	120,000	0	0	0	120,000	0	5,000	5,000
CHROMIUM COMPOUNDS	250	250	0	0	500	5	750	755
COPPER COMPOUNDS	250	0	0	0	250	750	15,000	15,750
ZINC COMPOUNDS	250	0	0	0	250	750	0	750
SUBTOTALS	172,750	250	0	0	173,000	1,505	24,250	25,755
UNITED STATES GYPSUM CO. 1001 BUCHANAN ST. NORFOLK VA 23523			SIC DESCRIPTION: GYPSUM PRODUCTS SIC CODE: 3275				MAP LOCATION NO:	9
SUBTOTALS	0	0	0	0	0	0	0	0
CHESAPEAKE FERTILIZER CO. FOOT OF OHIO ST. CHESAPEAKE VA 23324			SIC DESCRIPTION: FERTILIZERS, MIXING ONLY SIC CODE: 2875				MAP LOCATION NO:	10
SULFURIC ACID	0	5	5	0	10	0	0	0
COPPER COMPOUNDS	0	250	250	0	500	0	0	0
LEAD COMPOUNDS	0	250	250	0	500	0	0	0
MANGANESE COMPOUNDS	0	750	250	0	1,000	0	0	0
ZINC COMPOUNDS	0	1,340	250	0	1,590	0	0	0
SUBTOTALS	0	2,595	1,005	0	3,600	0	0	0

1994 TRI EMISSIONS (LB/YEAR) AT FACILITIES WITHIN THREE MILES OF
 FORD MOTOR CO TRI NO: 23523FRDMT2424S

Chemical Name	Air Fugitive (Non-Point Source) Emissions	Air Stack (Point Source) Emissions	Discharge to Surface Water	On-Site Land Disposal	TOTAL RELEASES	Discharge to POTW	Transfer	TOTAL TRANSFERS	
CARGILL INC. DSP DIV. 501 BARNES RD. CHESAPEAKE VA 23324 7506			SIC DESCRIPTION: SIC CODE: 2075	SOYBEAN OIL MILLS			MAP LOCATION NO:		11
SUBTOTALS	0	0	0	0	0	0	0	0	
CHESAPEAKE HARDWOOD PRODUCTS INC. 201 DEXTER ST. W. CHESAPEAKE VA 23324 3023			SIC DESCRIPTION: SIC CODE: 2435	HARDWOOD VENEER AND PLYWOOD			MAP LOCATION NO:		12
METHANOL	6,000	26,000	0	0	32,000	5	250	255	
SUBTOTALS	6,000	26,000	0	0	32,000	5	250	255	

Ford Motor Company

Norfolk Norfolk City County, Virginia

Latitude: 36 50 0 N
Longitude: 76 14 55 W

MAP KEY:

- County Boundaries
- Inter State Highway
- US Highway
- Rail Road
- One Mile
- Three Miles
- Five Miles

POPULATION DENSITY / SQ. MILE

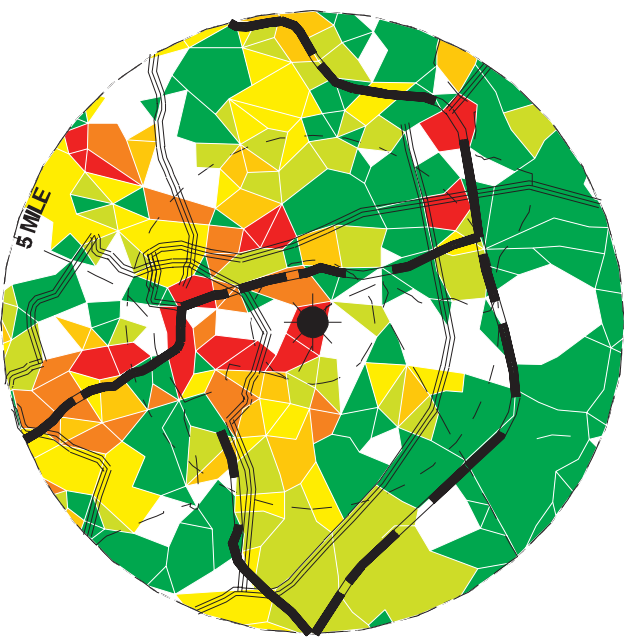
- Greater than 10000
- 1000 - 10000
- 100 - 1000
- 10-100
- 1-10

Minority, poverty, and High School Incomplete percentages

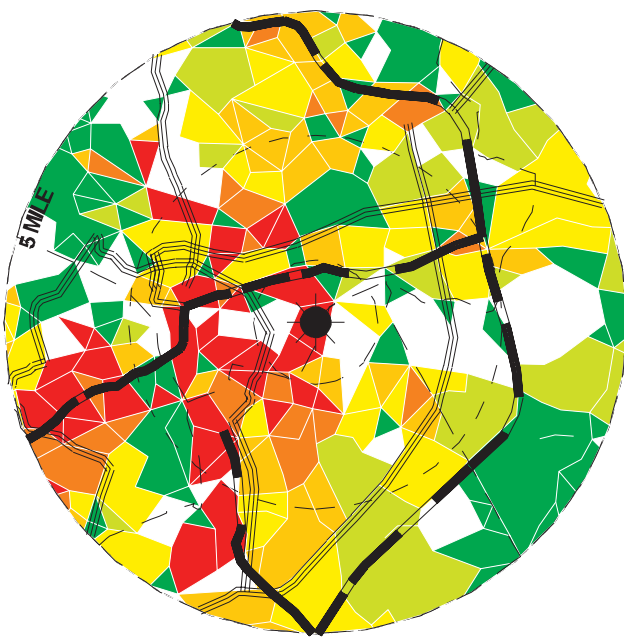
- Greater than 50
- 40 - 50
- 30 - 40
- 20 - 30
- 10 - 20
- 0 - 10



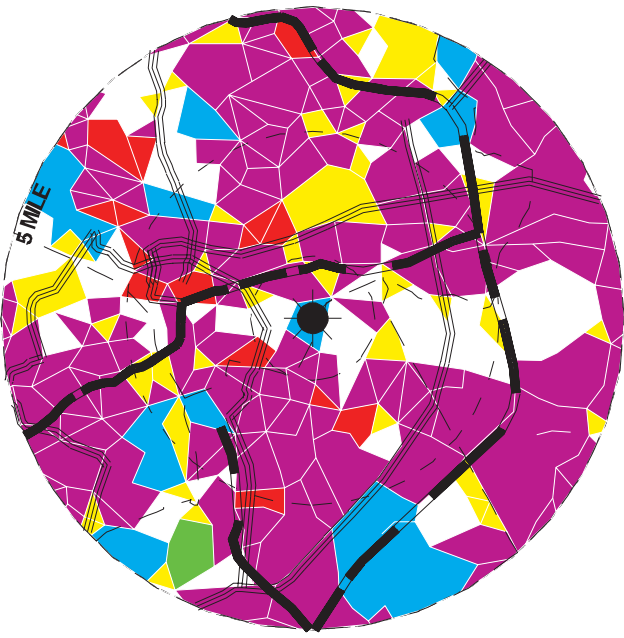
Percentage of Total Population Below Poverty Level



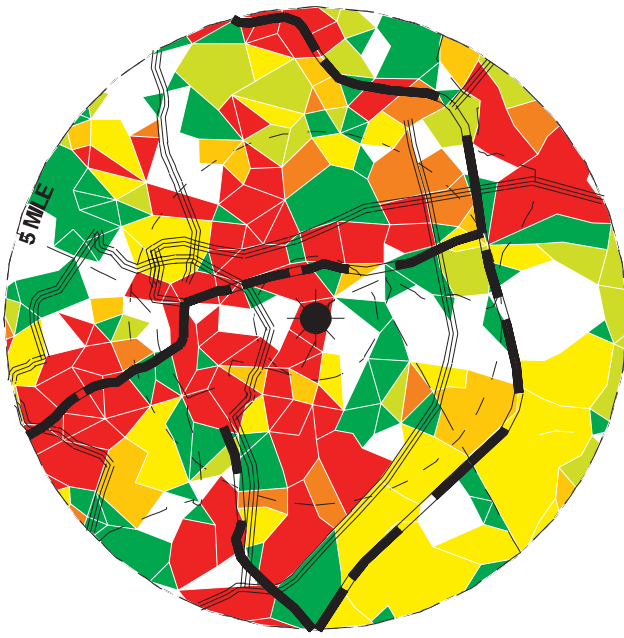
Percentage of Population not Completing High School



Population Density People Per Sq. Mile



Minority Population Percent of Total Population



Ford Motor Company

Norfolk Norfolk City County, Virginia

Latitude: 36 50 0 N
Longitude: 76 14 55 W

MAP KEY:

- County Boundaries
- Inter State Highway
- US Highway
- Rail Road
- One Mile
- Three Miles
- Five Miles

POPULATION DENSITY / SQ. MILE

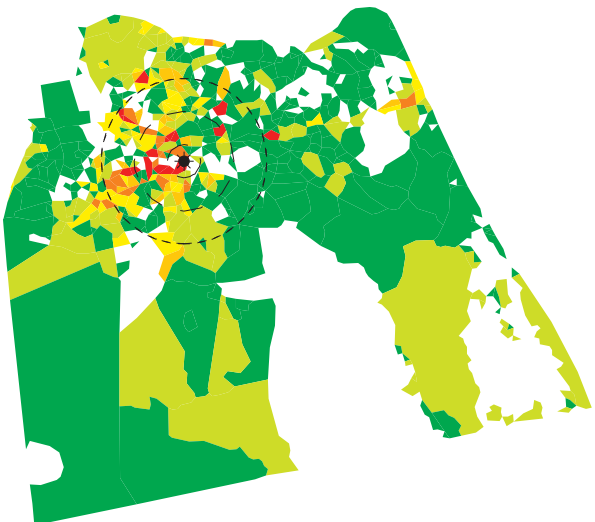
- Greater than 10000
- 1000 - 10000
- 100 - 1000
- 10-100
- 1-10

Minority, poverty, and High School Incomplete percentages

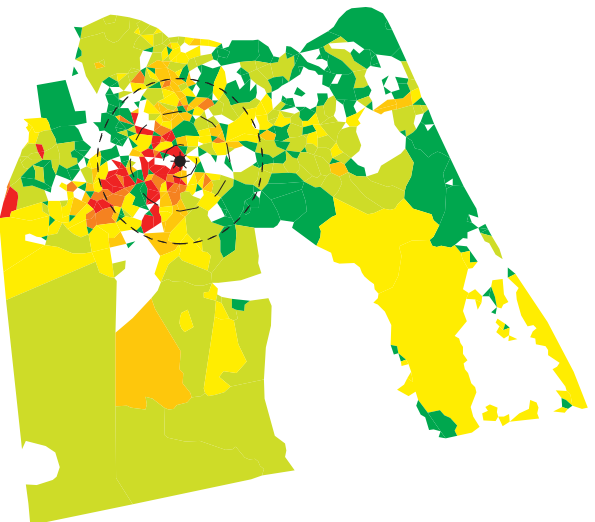
- Greater than 50
- 40 - 50
- 30 - 40
- 20 - 30
- 10 - 20
- 0 - 10



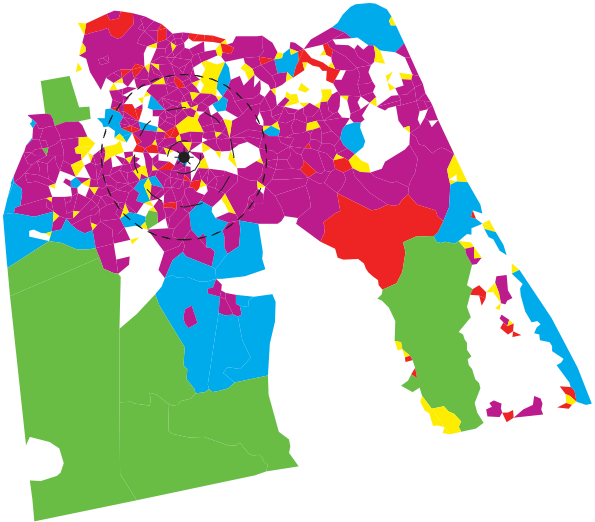
Percentage of Total Population Below Poverty Level



Percentage of Population not Completing High School



Population Density People Per Sq. Mile



Minority Population Percent of Total Population

